

**Flood Control Project Maintenance
Levee Inspections**

LMA District Cover Sheet

Spring 2012 Levee Inspection Results

Sacramento River West Side Levee District

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)				

** Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

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SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2012 Levee Inspection Results

Sacramento River West Side Levee District

Waterway			Bank	Unit Miles
Unit No. 01 Sacramento River			Right	50.21
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	5/3/2012 - 5/3/2012			
DWR Inspector	John Williamson			
Accompanied By	Chad Navarrot RD 108			
	Alfonso Figueroa RD 108			

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Sacramento River West Side Levee District

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector	
L/MR No.	Levee Mile		Category	Item	* Location	** Rating	Action/Comment			GPS Latitude/Longitude	Issue No.
	Start	End								Start	End
1	Earthen Levee	Operations & Maintenance Manuals	WS	A Ma						°	° 35
										°	°
										DWR ID: DWR_NA0016_01_s_2012_35	
2	Earthen Levee	Emergency Supplies & Equipment	WS	A Ma						°	° 36
										°	°
										DWR ID: DWR_NA0016_01_s_2012_36	
3	Earthen Levee	Flood Preparedness & Training	WS	A Ma						°	° 38
										°	°
										DWR ID: DWR_NA0016_01_s_2012_38	
4	0.29 50.11	Earthen Levee	Vegetation	LS M Ma	V1 : Control annual grass and weeds on the levee slopes and easements.			38.802813 ° 39.213613 ° 5 -121.724143 ° -121.999000 ° Y			
								DWR ID: DWR_NA0016_01_s_2012_5			
5	0.29 50.11	Earthen Levee	Vegetation	WS M Ma	V1 : Control annual grass and weeds on the levee slopes and easements.			38.802802 ° 39.213613 ° 25 -121.724142 ° ° Y			
								DWR ID: DWR_NA0016_01_s_2012_25			
6	0.32 0.32	Earthen Levee	Vegetation	WS M Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.			38.803308 ° 38.803308 ° 27 -121.724190 ° -121.724190 ° Y			
								DWR ID: DWR_NA0016_01_s_2012_27			
7	0.98 0.98	Earthen Levee	Vegetation	LS C Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.			38.812727 ° 38.812727 ° 6 -121.724496 ° -121.724496 °			
								DWR ID: DWR_NA0016_01_s_2012_6			
8	1.76 1.76	Earthen Levee	Encroachments	WS C Ma	FW : Firewood			38.823801 ° 38.823801 ° 1425 -121.724637 ° -121.724637 °			
								DWR ID: DWR_NA0016_01_s_2012_1425			
9	2.83 2.83	Earthen Levee	Vegetation	LS M En	V6 : Landscaping			38.837405 ° 38.837405 ° 4 -121.731717 ° -121.731717 ° Y			
								DWR ID: DWR_NA0016_01_s_2012_4			
10	3.59 3.97	Earthen Levee	Encroachments	LS A/W En	AD : Agricultural Ditch Inspector Comments: concrete lined			38.846767 ° 38.850758 ° 8 -121.729943 ° -121.725263 ° Y			
								DWR ID: DWR_NA0016_01_s_2012_8			
11	4.61 4.61	Earthen Levee	Encroachments	LS C Ma	DE : Debris			38.856724 ° 38.856724 ° 1428 -121.730809 ° -121.730809 °			
								DWR ID: DWR_NA0016_01_s_2012_1428			
12	4.85 4.85	Earthen Levee	Encroachments	LS A/W En	FE : Fences Inspector Comments: chain link fence runs along levee			38.859419 ° 38.859419 ° 9 -121.732708 ° -121.732708 ° Y			
								DWR ID: DWR_NA0016_01_s_2012_9			
13	9.78 9.90	Earthen Levee	Vegetation	WSA/W Ob	V8 : Environmental Requirements.			38.862320 ° 38.862848 ° 29 -121.791243 ° -121.793267 ° Y			
								DWR ID: DWR_NA0016_01_s_2012_29			
14	10.03 11.51	Supplemental USACE Erosion Survey	WS	M Ma	Inspector Comments: 1997 - Toe damage and loss of cobble revetment and small patch of local damage to the cobble revetment. 2000 - Cohesive vertical toe; revegetation site. 2011: No observed change. [2011 Site ID: SAC_101-3_R]			38.875109 ° 38.874854 ° 1 -121.813592 ° -121.813018 ° Y			
								DWR ID: DWR_NA0016_01_s_2012_1			

* Location LS : Land Side WS : Water Side CR : Crown

** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable

+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2012

Sacramento River West Side Levee District

Waterway								Bank	Unit Miles	Inspection Start/End	Inspector
LMR No	Levee Mile		Category	Item	* Location	** Rating	+ Issue Type	Action/Comment		GPS Latitude/Longitude	Issue No.
	Start	End						Start	End	Photo	
15	11.83	11.83	Earthen Levee	Encroachments	WS M En	CR : Crops				38.876807 ° 38.876807 °	966
							Inspector Comments: new walnut orchard between toe and river app. 80-90 trees			-121.816028 ° -121.816028 °	
										DWR ID: DWR_NA0016_01_s_2012_966	
16	12.35	12.35	Earthen Levee	Encroachments	CR A/W En	BU : Buildings				38.883807 ° 38.883807 °	14
										-121.817543 ° -121.817543 °	Y
										DWR ID: DWR_NA0016_01_s_2012_14	
17	18.41	18.66	Earthen Levee	Encroachments	LS A/W En	AD : Agricultural Ditch				38.946742 ° 38.950180 °	15
							Inspector Comments: concrete lined			-121.837557 ° -121.837760 °	
										DWR ID: DWR_NA0016_01_s_2012_15	
18	18.75	18.75	Earthen Levee	Encroachments	CR A/W En	BU : Buildings				38.951400 ° 38.951400 °	16
										-121.838255 ° -121.838255 °	Y
										DWR ID: DWR_NA0016_01_s_2012_16	
19	18.84	18.84	Supplemental Survey	USACE Erosion	WS M Ma	Inspector Comments: 2009 - Minor erosion, should be repaired under maintenance. 2011: Some new minor erosion at the toe. [2011 Site ID: SAC_111-0_R]				38.954060 ° 38.954312 °	2
										-121.840560 ° -121.840774 °	Y
										DWR ID: DWR_NA0016_01_s_2012_2	
20	18.89	18.89	Earthen Levee	Vegetation	LS M En	V6 : Landscaping				38.952925 ° 38.952925 °	18
										-121.840010 ° -121.840010 °	Y
										DWR ID: DWR_NA0016_01_s_2012_18	
21	18.98	18.98	Earthen Levee	Vegetation	LS C Ma	V2 : Remove the wild growth other than native grasses from the levee slopes.				38.953975 ° 38.953975 °	20
							Inspector Comments: cactus at landside levee toe			-121.840833 ° -121.840833 °	
										DWR ID: DWR_NA0016_01_s_2012_20	
22	19.04	19.09	Earthen Levee	Encroachments	LS A/W En	AD : Agricultural Ditch				38.954756 ° 38.955499 °	22
							Inspector Comments: concrete lined			-121.841432 ° -121.841271 °	
										DWR ID: DWR_NA0016_01_s_2012_22	
23	19.22	19.22	Earthen Levee	Encroachments	CR M En	BU : Buildings				38.956330 ° 38.956330 °	23
										-121.839277 ° -121.839277 °	Y
										DWR ID: DWR_NA0016_01_s_2012_23	
24	19.35	19.35	Earthen Levee	Encroachments	LS M Ma	EQ : Equipment				38.957232 ° 38.957232 °	26
										-121.837258 ° -121.837258 °	Y
										DWR ID: DWR_NA0016_01_s_2012_26	
25	19.36	20.13	Earthen Levee	Encroachments	LS A/W En	AD : Agricultural Ditch				38.957332 ° 38.966719 °	31
										-121.837043 ° -121.835880 °	Y
										DWR ID: DWR_NA0016_01_s_2012_31	
26	20.96	22.34	Earthen Levee	Encroachments	LS A/W En	AD : Agricultural Ditch				38.974042 ° 38.989532 °	32
										-121.825713 ° -121.816695 °	
										DWR ID: DWR_NA0016_01_s_2012_32	
27	22.36	22.68	Earthen Levee	Vegetation	WSA/W Ob	V8 : Environmental Requirements.				38.989493 ° 38.989712 °	30
										-121.816257 ° -121.810410 °	Y
										DWR ID: DWR_NA0016_01_s_2012_30	
28	23.00	23.00	Earthen Levee	Trim / Thin Trees	LS M Ma	T1 : Trim trees to at least five feet above ground level.				38.989785 ° 38.989785 °	28
										-121.804702 ° -121.804702 °	Y
										DWR ID: DWR_NA0016_01_s_2012_28	

* Location LS : Land Side WS : Water Side CR : Crown
** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable

N : Not Inspected/Rated	C : Corrected	+ Issue Type
A/W : Acceptable but Monitor & Maintain	Ob : Design & System Obsolescence	Ma : Maintenance Deficiency

En : Enforcement

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2012

Sacramento River West Side Levee District

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector	
LMR No	Levee Mile		Category	Item	* Location Start	** Rating +	Action/Comment			GPS Latitude/Longitude	Issue No.
	Start	End					En	Start	End	Photo	
29	23.69	23.69	Supplemental USACE Erosion Survey	WS M	Ma		Inspector Comments: 2008 - Slippage of cobbles off hard underlying toe material. 2011: Minor slumping site. [2011 Site ID: SAC_115-9_R]	38.997696 °	38.997824 °	3	-121.797584 ° -121.797891 ° Y
											DWR ID: DWR_NA0016_01_s_2012_3
30	25.13	25.13	Earthen Levee	Vegetation	LS En	M	V6 : Landscaping	39.005240 °	39.005240 °	34	-121.818123 ° -121.818123 ° Y
											DWR ID: DWR_NA0016_01_s_2012_34
31	25.91	25.91	Supplemental USACE Erosion Survey	WS M	Ma		Inspector Comments: 2008 - Whole bank is eroding, nearly vertical slope with cohesive toe. Bed is very deep along the toe (greater than 30 ft deep at 20 ft from the shore) 2011: Some new minor erosion. [2011 Site ID: SAC_118-0_R]	39.014499 °	39.016401 °	7	-121.825880 ° -121.824230 ° Y
											DWR ID: DWR_NA0016_01_s_2012_7
32	27.85	27.85	Earthen Levee	Animal Control	LS Ma	C	A1 : Exterminate rodents and backfill and compact or grout burrows.	39.034620 °	39.034620 °	37	-121.833378 ° -121.833378 °
											DWR ID: DWR_NA0016_01_s_2012_37
33	28.37	28.37	Earthen Levee	Encroachments	WS Ma	M	DE : Debris Inspector Comments: piles of concrete	39.040793 °	39.040793 °	59	-121.835445 ° -121.835445 ° Y
											DWR ID: DWR_NA0016_01_s_2012_59
34	29.98	29.98	Supplemental USACE Erosion Survey	WS M	Ma		Inspector Comments: 1997 - Mass failure of the lower cohesive bank and toe. 2000 - Still eroding, steeply dipping foresets in the toe are falling off. 2010 - Some new erosion and some new deposition. Eddy current off the upstream rock. 2011: Still plenty of berm left. [2011 Site ID: SAC_122-0_R]	39.063209 °	39.063997 °	10	-121.838927 ° -121.839335 ° Y
											DWR ID: DWR_NA0016_01_s_2012_10
35	30.21	30.21	Supplemental USACE Erosion Survey	WS M	Ma		Inspector Comments: 2002 - Upstream end has recent slope failure and exposure of tree roots. 2003 - Some new minor slope erosion with new snags on the bank. 2004 - Appears a little worse. 2005 - Scallop in bank at the upstream end looks worse. 2009 - Minimal new erosion. Berm width is still large, but one large event or one fallen tree and it could go fast. 2010 - New erosion, bank is nearly all vertical from slumping. Site looks bad. 2011: site starting to look bad. [2011 Site ID: SAC_122-3_R]	39.065886 °	39.066287 °	11	-121.842950 ° -121.843602 ° Y
											DWR ID: DWR_NA0016_01_s_2012_11
36	31.76	31.78	Supplemental USACE Erosion Survey	WS M	Ma		Inspector Comments: 1997 - Erosion into the levee section; old concrete rubble loss at toe; transition between the rock upstream and the cobble downstream. 2000 - Cohesive bench with concrete slabs on top; 25 ft deep scour hole on the downstream end. 2011: No observed change. [2011 Site ID: SAC_123-7_R]	39.066901 °	39.067004 °	12	-121.867322 ° -121.866913 ° Y
											DWR ID: DWR_NA0016_01_s_2012_12
37	32.01	32.01	Earthen Levee	Encroachments	WS En	M	BU : Buildings Inspector Comments: Old concrete pumphouse on shoulder open needs to be sealed up.	39.066147 °	39.066147 °	60	-121.870425 ° -121.870425 ° Y
											DWR ID: DWR_NA0016_01_s_2012_60

* Location LS : Land Side WS : Water Side CR : Crown

** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain
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+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2012

Sacramento River West Side Levee District

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector		
LMR No	Levee Mile		Category	Item	* Location Start	* Rating +	Action/Comment			GPS Latitude/Longitude	Issue No.	
	Start	End					En	A/W	Ma	Start	End	Photo
38	32.42	32.42	Earthen Levee	Vegetation	WSA/W	V4 : Elderberries are blocking visibility and flood fight Ma capability.				39.069130 °	39.069130 °	41
										-121.876638 °	-121.876638 °	
										DWR ID: DWR_NA0016_01_s_2012_41		
39	32.43	32.56	Earthen Levee	Encroachments	WSA/W	BU : Buildings En Inspector Comments: Grimes Boat Landing				39.069487 °	39.070063 °	42
										-121.876817 °	-121.879062 °	
										DWR ID: DWR_NA0016_01_s_2012_42		
40	33.37	33.37	Earthen Levee	Encroachments	LS A/W	BU : Buildings En Inspector Comments: This is the town of Grimes.				39.074331 °	39.074331 °	43
										-121.891989 °	-121.891989 °	
										DWR ID: DWR_NA0016_01_s_2012_43		
41	33.58	33.58	Earthen Levee	Vegetation	WS	C V2 : Remove the wild growth other than native grasses Ma from the levee slopes.				39.076762 °	39.076762 °	44
										-121.894200 °	-121.894200 °	
										DWR ID: DWR_NA0016_01_s_2012_44		
42	33.64	33.64	Supplemental USACE Erosion Survey	WS	M	Inspector Comments: 2008 - Slow erosion of the hard toe. 2010 - Cobble rubble is failing, erosion is into the toe of the levee, with vertical slumping. 2011: No observed change. [2011 Site ID: SAC_125-6_R]				39.078340 °	39.079351 °	13
										-121.894656 °	-121.895317 °	Y
										DWR ID: DWR_NA0016_01_s_2012_13		
43	35.47	35.47	Earthen Levee	Trim / Thin Trees	WS	M T2 : Thin trees to allow visibility of the ground and room to Ma flood fight.				39.096777 °	39.096777 °	1429
										-121.902873 °	-121.902873 °	Y
										DWR ID: DWR_NA0016_01_s_2012_1429		
44	35.62	35.62	Supplemental USACE Erosion Survey	WS	M	Inspector Comments: 1997 - Major scour off the downstream end of existing rock, creating a scour pocket where the levee starts diverging from the bankline. 2000 - Some minor erosion, 20 ft deep hole at downstream end. 2004 - Small amount of new erosion. 2010 - Bad transition off downstream end of rock revetment, some new erosion. 2011: No observed change. [2011 Site ID: SAC_127-9_R]				39.100084 °	39.100836 °	17
										-121.903981 °	-121.904320 °	Y
										DWR ID: DWR_NA0016_01_s_2012_17		
45	37.53	37.61	Earthen Levee	Vegetation	WSA/W	V8 : Environmental Requirements. Ob				39.120977 °	39.121543 °	33
										-121.919843 °	-121.921245 °	Y
										DWR ID: DWR_NA0016_01_s_2012_33		
46	42.85	43.02	Earthen Levee	Vegetation	LS	C V2 : Remove the wild growth other than native grasses Ma from the levee slopes. Inspector Comments: Johnson grass is progressing and is getting densier.				39.164373 °	39.166666 °	1430
										-121.936867 °	-121.937674 °	
										DWR ID: DWR_NA0016_01_s_2012_1430		
47	43.35	43.35	Supplemental USACE Erosion Survey	WS	M	Inspector Comments: 2010 - Lower portion of 136.7 that did not extend far enough. Abrupt transition from upstream site. 2011: No observed change. [2011 Site ID: SAC_136-6_R]				39.173245 °	39.174555 °	19
										-121.939419 °	-121.940427 °	Y
										DWR ID: DWR_NA0016_01_s_2012_19		
48	43.76	43.76	Earthen Levee	Encroachments	LS	M FE : Fences En				39.176429 °	39.176429 °	46
										-121.942889 °	-121.942889 °	Y
										DWR ID: DWR_NA0016_01_s_2012_46		
49	44.28	44.28	Earthen Levee	Animal Control	WS	C A3 : No rodents visible, but rodent burrows visible; need to Ma backfill and compact or grout burrows.				39.182723 °	39.182723 °	1431
										-121.946107 °	-121.946107 °	
										DWR ID: DWR_NA0016_01_s_2012_1431		

* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
M : Minimally Acceptable
U : Unacceptable
N : Not Inspected/Rated
C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2012

Sacramento River West Side Levee District

Waterway							Bank	Unit Miles	Inspection Start/End	Inspector	
LMR No	Levee Mile		Category	Item	* Location	** Rating	Action/Comment			GPS Latitude/Longitude	Issue No.
	Start	End					Start	End	Photo		
50	44.87	44.87	Earthen Levee	Encroachments	WS Ma	C	PR : Prunings			39.189325 °	39.189325 ° 45
										-121.940190 °	-121.940190 °
										DWR ID: DWR_NA0016_01_s_2012_45	
51	45.48	45.48	Earthen Levee	Animal Control	LS Ma	C	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.			39.196380 °	39.196380 ° 1432
										-121.946318 °	-121.946318 °
										DWR ID: DWR_NA0016_01_s_2012_1432	
52	46.56	46.56	Earthen Levee	Vegetation	WS Ma	C	V2 : Remove the wild growth other than native grasses from the levee slopes.			39.187432 °	39.187432 ° 1433
										-121.962193 °	-121.962193 °
										DWR ID: DWR_NA0016_01_s_2012_1433	
53	47.57	47.57	Earthen Levee	Vegetation	LS En	M	V6 : Landscaping Inspector Comments: cactus on slope and toe of levee, landscape continues along roadway with fence and stairs			39.188577 °	39.188577 ° 54
										-121.979388 °	-121.979388 ° Y
										DWR ID: DWR_NA0016_01_s_2012_54	
54	48.11	48.11	Supplemental Survey	USACE Erosion	WS Ma	M	Inspector Comments: 2010 - Old cobble site starting to unravel at toe. 2011: Cobbles continue to unravel. [2011 Site ID: SAC_141-5_R]			39.193931 °	39.195595 ° 21
										-121.987905 °	-121.988621 ° Y
										DWR ID: DWR_NA0016_01_s_2012_21	
55	48.82	48.82	Earthen Levee	Encroachments	LS Ma	C	DE : Debris			39.202209 °	39.202209 ° 1434
										-121.986307 °	-121.986307 °
										DWR ID: DWR_NA0016_01_s_2012_1434	
56	49.84	49.84	Earthen Levee	Animal Control	LS Ma	C	A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.			39.212785 °	39.212785 ° 1435
										-121.994178 °	-121.994178 °
										DWR ID: DWR_NA0016_01_s_2012_1435	
57	49.96	49.96	Earthen Levee	Vegetation	WS Ma	C	V2 : Remove the wild growth other than native grasses from the levee slopes.			39.213212 °	39.213212 ° 1436
										-121.996354 °	-121.996354 °
										DWR ID: DWR_NA0016_01_s_2012_1436	
58	50.03	50.03	Supplemental Survey	USACE Erosion	WS Ma	M	Inspector Comments: 2011: multiple scallops, one tree pop out. old cobble site starting to unravel [2011 Site ID: SAC_143-5_R]			39.213608 °	39.213869 ° 24
										-121.997543 °	-121.999641 ° Y
										DWR ID: DWR_NA0016_01_s_2012_24	
59	50.11	50.11	Earthen Levee	Vegetation	LS En	M	V6 : Landscaping Inspector Comments: Agave plants at toe of levee			39.213613 °	39.213613 ° 58
										-121.998997 °	-121.998997 ° Y
										DWR ID: DWR_NA0016_01_s_2012_58	

* Location LS : Land Side WS : Water Side CR : Crown

** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable
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+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Sacramento River West Side Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	50.21	05/03/2012 05/03/2012	John Williamson

Levee Mile Report Line	4
Start Levee Mile	0.29
End Levee Mile	50.11
Location	Land Side
Category	Earthen Levee
Item	Vegetation

The stand of oats is greater than 12". Photo taken spring 2012.

johngw_s_20120507_791.jpg



Levee Mile Report Line	5
Start Levee Mile	0.29
End Levee Mile	50.11
Location	Water Side
Category	Earthen Levee
Item	Vegetation

The oats are greater than 12". Photo taken spring 2012.

johngw_s_20120507_792.jpg



Levee Mile Report Line	6
Start Levee Mile	0.32
End Levee Mile	0.32
Location	Water Side
Category	Earthen Levee
Item	Vegetation

The berries block visibility. Photo taken spring 2012.

johngw_s_20120507_793.jpg



* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
A : Acceptable
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Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Sacramento River West Side Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	50.21	05/03/2012 05/03/2012	John Williamson

Levee Mile Report Line	9
Start Levee Mile	2.83
End Levee Mile	2.83
Location	Land Side
Category	Earthen Levee
Item	Vegetation
Landscape at River Garden Farms with irrigation.	
<i>johngw_s_20120313_181.jpg</i>	



Levee Mile Report Line	10
Start Levee Mile	3.59
End Levee Mile	3.97
Location	Land Side
Category	Earthen Levee
Item	Encroachments
A concrete line ditch runs along the toe. Photo taken spring 2012.	
<i>johngw_s_20120507_794.jpg</i>	



Levee Mile Report Line	12
Start Levee Mile	4.85
End Levee Mile	4.85
Location	Land Side
Category	Earthen Levee
Item	Encroachments
The chain link fence runs along the toe but does not obstruct the view. Photo taken spring 2012.	
<i>johngw_s_20120507_795.jpg</i>	



* Location
LS : Land Side
WS : Water Side
CR : Crown

** Rating
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M : Minimally Acceptable
U : Unacceptable

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C : Corrected
A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Sacramento River West Side Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	50.21	05/03/2012 05/03/2012	John Williamson

Levee Mile Report Line	13
Start Levee Mile	9.78
End Levee Mile	9.90
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Revegetation site. Photo taken spring 2012.

johngw_s_20120507_796.jpg



Levee Mile Report Line	13
Start Levee Mile	9.78
End Levee Mile	9.90
Location	Water Side
Category	Earthen Levee
Item	Vegetation

The revegetation site along the berm.

johngw_s_20120507_797.jpg



Levee Mile Report Line	14
Start Levee Mile	10.03
End Levee Mile	11.51
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #1

johngw_s_20120313_175.jpg



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Sacramento River West Side Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	50.21	05/03/2012 05/03/2012	John Williamson

Levee Mile Report Line	14
Start Levee Mile	10.03
End Levee Mile	11.51
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #2

johngw_s_20120313_176.jpg



The rice silos are on top of the levee crown.
Photo taken spring 2012.

johngw_s_20120507_798.jpg



Another rice mill on the crown. Photo taken spring 2012.

johngw_s_20120507_799.jpg



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Sacramento River West Side Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	50.21	05/03/2012 05/03/2012	John Williamson

Levee Mile Report Line	19
Start Levee Mile	18.84
End Levee Mile	18.84
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #1

johngw_s_20120313_177.jpg



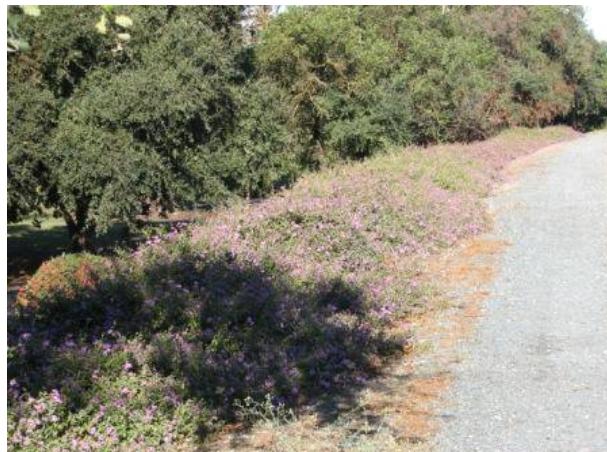
USACE 2011 Photo #2

johngw_s_20120313_178.jpg



Groundcover and trees with irrigation are planted on the levee slope. Fall 2011.

johngw_s_20120313_197.jpg



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Sacramento River West Side Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	50.21	05/03/2012 05/03/2012	John Williamson

Levee Mile Report Line	23
Start Levee Mile	19.22
End Levee Mile	19.22
Location	Crown
Category	Earthen Levee
Item	Encroachments

Another rice mill on the crown. Photo taken spring 2012.

johngw_s_20120507_800.jpg



Levee Mile Report Line	24
Start Levee Mile	19.35
End Levee Mile	19.35
Location	Land Side
Category	Earthen Levee
Item	Encroachments

There is equipment on the levee crown and shoulder in the trees. Fall 2011.

johngw_s_20120313_206.jpg



Levee Mile Report Line	25
Start Levee Mile	19.36
End Levee Mile	20.13
Location	Land Side
Category	Earthen Levee
Item	Encroachments

The concrete lined agricultural ditch runs along the toe. Fall 2011.

johngw_s_20120313_208.jpg



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Sacramento River West Side Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	50.21	05/03/2012 05/03/2012	John Williamson

Levee Mile Report Line	27
Start Levee Mile	22.36
End Levee Mile	22.68
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Revegetation site. Photo taken spring 2012.

johngw_s_20120507_801.jpg



Levee Mile Report Line	27
Start Levee Mile	22.36
End Levee Mile	22.68
Location	Water Side
Category	Earthen Levee
Item	Vegetation

The revegetation site on the berm.

johngw_s_20120507_802.jpg



Levee Mile Report Line	28
Start Levee Mile	23.00
End Levee Mile	23.00
Location	Land Side
Category	Earthen Levee
Item	Trim / Thin Trees

The trees need to be trimmed up for visibility. Fall 2011

johngw_s_20120313_207.jpg



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Sacramento River West Side Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	50.21	05/03/2012 05/03/2012	John Williamson

Levee Mile Report Line	29
Start Levee Mile	23.69
End Levee Mile	23.69
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #1



johngw_s_20120313_179.jpg

Levee Mile Report Line	29
Start Levee Mile	23.69
End Levee Mile	23.69
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #2



johngw_s_20120313_180.jpg

Levee Mile Report Line	30
Start Levee Mile	25.13
End Levee Mile	25.13
Location	Land Side
Category	Earthen Levee
Item	Vegetation

The tall grasses blend with the groundcover on the levee slope. Photo taken spring 2012.



johngw_s_20120507_803.jpg

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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2012

Sacramento River West Side Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	50.21	05/03/2012 05/03/2012	John Williamson

Levee Mile Report Line	31
Start Levee Mile	25.91
End Levee Mile	25.91
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #1

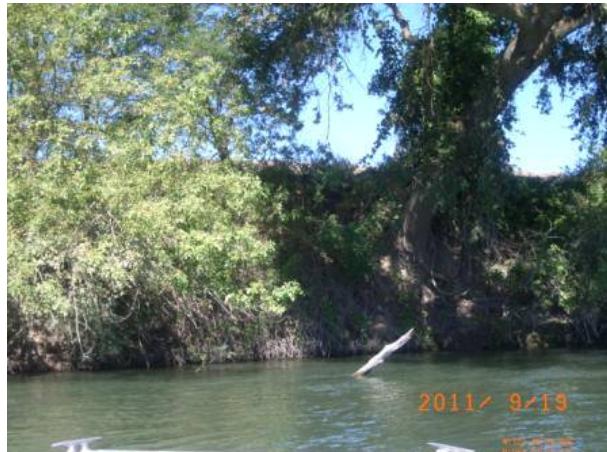
johngw_s_20120313_183.jpg



Levee Mile Report Line	31
Start Levee Mile	25.91
End Levee Mile	25.91
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #2

johngw_s_20120313_184.jpg



Levee Mile Report Line	31
Start Levee Mile	25.91
End Levee Mile	25.91
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #3

johngw_s_20120313_185.jpg



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

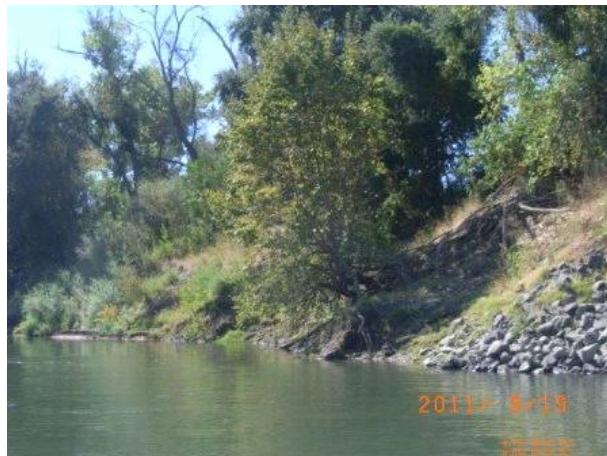
Sacramento River West Side Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	50.21	05/03/2012 05/03/2012	John Williamson

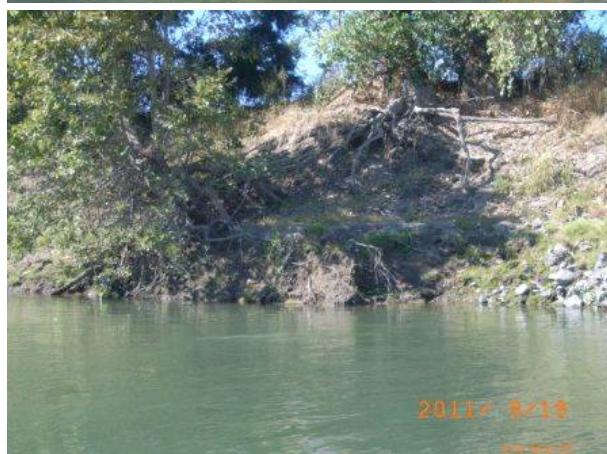
Levee Mile Report Line	33
Start Levee Mile	28.37
End Levee Mile	28.37
Location	Water Side
Category	Earthen Levee
Item	Encroachments
Concrete debris is on the waterside levee slope. Fall 2011.	
johngw_s_20120313_209.jpg	



Levee Mile Report Line	34
Start Levee Mile	29.98
End Levee Mile	29.98
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
USACE 2011 Photo #1	
johngw_s_20120313_186.jpg	



Levee Mile Report Line	34
Start Levee Mile	29.98
End Levee Mile	29.98
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey
USACE 2011 Photo #2	
johngw_s_20120313_187.jpg	



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Sacramento River West Side Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	50.21	05/03/2012 05/03/2012	John Williamson

Levee Mile Report Line	35
Start Levee Mile	30.21
End Levee Mile	30.21
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #1

johngw_s_20120313_188.jpg



Levee Mile Report Line	35
Start Levee Mile	30.21
End Levee Mile	30.21
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #2

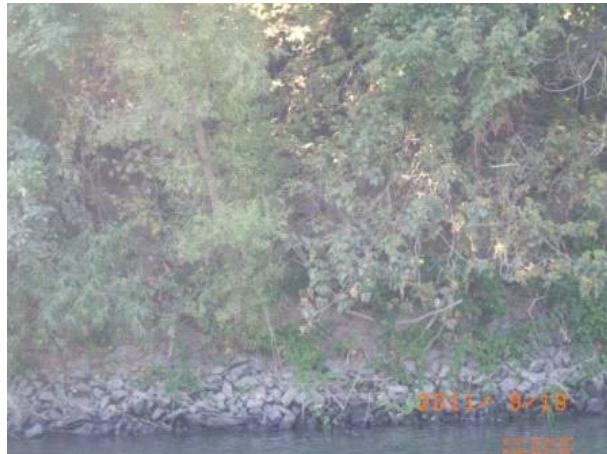
johngw_s_20120313_189.jpg



Levee Mile Report Line	36
Start Levee Mile	31.76
End Levee Mile	31.78
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #1

johngw_s_20120313_190.jpg



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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2012

Sacramento River West Side Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	50.21	05/03/2012 05/03/2012	John Williamson

Levee Mile Report Line	36
Start Levee Mile	31.76
End Levee Mile	31.78
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #2

johngw_s_20120313_191.jpg



Old concrete pump house on the waterside levee slope. Fall 2011.

johngw_s_20120313_210.jpg



USACE 2011 Photo #1

johngw_s_20120313_192.jpg



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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2012

Sacramento River West Side Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	50.21	05/03/2012 05/03/2012	John Williamson

Levee Mile Report Line	42
Start Levee Mile	33.64
End Levee Mile	33.64
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #2

johngw_s_20120313_193.jpg



Levee Mile Report Line	42
Start Levee Mile	33.64
End Levee Mile	33.64
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #3

johngw_s_20120313_194.jpg



Levee Mile Report Line	43
Start Levee Mile	35.47
End Levee Mile	35.47
Location	Water Side
Category	Earthen Levee
Item	Trim / Thin Trees

The tree has fallen down on the levee slope. Fall 2011.

johngw_s_20120313_213.jpg



* Location
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WS : Water Side
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Sacramento River West Side Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	50.21	05/03/2012 05/03/2012	John Williamson

Levee Mile Report Line	44
Start Levee Mile	35.62
End Levee Mile	35.62
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #1

johngw_s_20120313_195.jpg



Levee Mile Report Line	44
Start Levee Mile	35.62
End Levee Mile	35.62
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #2

johngw_s_20120313_196.jpg



Levee Mile Report Line	45
Start Levee Mile	37.53
End Levee Mile	37.61
Location	Water Side
Category	Earthen Levee
Item	Vegetation

Revegetation site. Photo taken spring 2012.

johngw_s_20120507_804.jpg



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Sacramento River West Side Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	50.21	05/03/2012 05/03/2012	John Williamson

Levee Mile Report Line	45
Start Levee Mile	37.53
End Levee Mile	37.61
Location	Water Side
Category	Earthen Levee
Item	Vegetation

The revegetation on the berm with the fence and stakes.

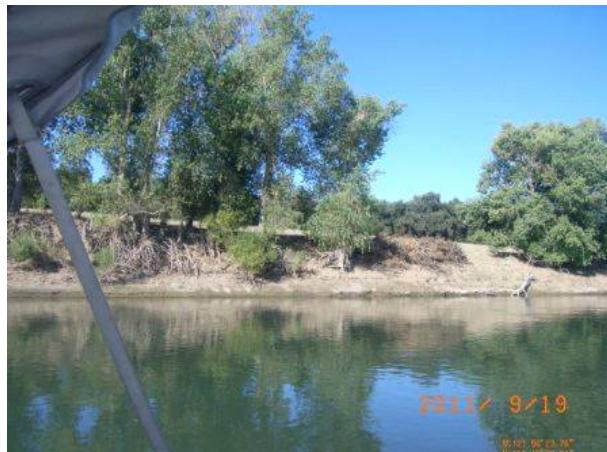
johngw_s_20120507_805.jpg



Levee Mile Report Line	47
Start Levee Mile	43.35
End Levee Mile	43.35
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #1

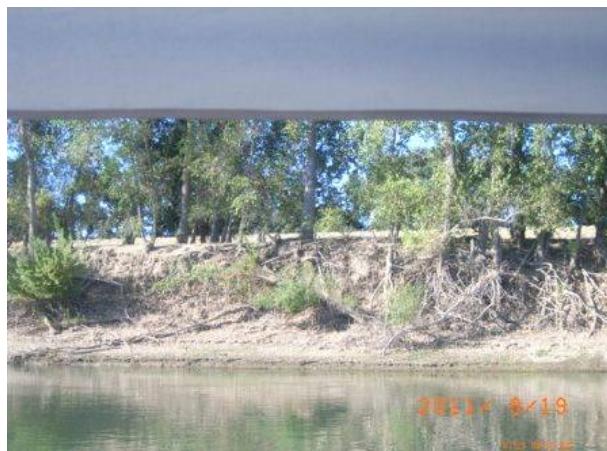
johngw_s_20120313_198.jpg



Levee Mile Report Line	47
Start Levee Mile	43.35
End Levee Mile	43.35
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #2

johngw_s_20120313_199.jpg



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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2012

Sacramento River West Side Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	50.21	05/03/2012 05/03/2012	John Williamson

Levee Mile Report Line	47
Start Levee Mile	43.35
End Levee Mile	43.35
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #3

johngw_s_20120313_200.jpg



A solid fence along the toe of the levee. Photo taken spring 2012.

johngw_s_20120507_806.jpg



The front yard along the road and on the levee slope. Photo taken spring 2012.

johngw_s_20120507_807.jpg



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Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2012

Sacramento River West Side Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	50.21	05/03/2012 05/03/2012	John Williamson

Levee Mile Report Line	54
Start Levee Mile	48.11
End Levee Mile	48.11
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #1

johngw_s_20120313_201.jpg



Levee Mile Report Line	54
Start Levee Mile	48.11
End Levee Mile	48.11
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #2

johngw_s_20120313_202.jpg



Levee Mile Report Line	58
Start Levee Mile	50.03
End Levee Mile	50.03
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #1

johngw_s_20120313_203.jpg



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En : Enforcement

Flood Control Project Maintenance
Levee Inspections

Levee Inspection Report By Mile - Spring 2012

Sacramento River West Side Levee District

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sacramento River	Right	50.21	05/03/2012 05/03/2012	John Williamson

Levee Mile Report Line	58
Start Levee Mile	50.03
End Levee Mile	50.03
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #2

johngw_s_20120313_204.jpg



Levee Mile Report Line	58
Start Levee Mile	50.03
End Levee Mile	50.03
Location	Water Side
Category	Supplemental
Item	USACE Erosion Survey

USACE 2011 Photo #3

johngw_s_20120313_205.jpg



Levee Mile Report Line	59
Start Levee Mile	50.11
End Levee Mile	50.11
Location	Land Side
Category	Earthen Levee
Item	Vegetation

Cactus (Agave) planted along the toe. Photo taken spring 2012.

johngw_s_20120507_808.jpg



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WS : Water Side
CR : Crown

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Ob : Design & System Obsolescence
En : Enforcement